EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S79	22	S77 and S78	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 15:03
S78	45125	record with field	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 15:03
S77	112	query with slider	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 15:03
S75	1	query with slider with automatic$5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/04/24 15:03
S76	12	dynamic near8 query near8 visuali$8	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/24 15:02
S61	12	dynamic near8 query near8 visuali$8	US-PGPUB; USPAT; USOCR	OR	ON	2006/04/24 15:02
S1	1	("6014661").PN.	USPAT; USOCR	OR	OFF	2006/04/24 15:00

Terms used **dynamic query slider range record**

Found **53** of **541** searched out of **541**.

Sort results by: relevance

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Results 1 - 20 of 53

Result page: **1** 2 3 next

Relevance scale

1 Automatic generation of starfield displays using constraints

Scott E. Hudson, Ian Smith

May 1995 **Conference companion on Human factors in computing systems**

Publisher: ACM Press

Full text available: pdf(266.14 KB) Additional Information: full citation, references, citings, index terms

2 Data structures for dynamic queries: an analytical and experimental evaluation

Vinit Jain, Ben Shneiderman

June 1994 **Proceedings of the workshop on Advanced visual interfaces**

Publisher: ACM Press

Full text available: pdf(2.35 MB) Additional Information: full citation, abstract, references, citings, index terms

Dynamic Queries is a querying technique for doing range search on multi-key data sets. It is a direct manipulation mechanism where the query is formulated using graphical widgets and the results are displayed graphically preferably within 100 milliseconds.This paper evaluates four data structures, the multilist, the grid file, k-d tree and the quad tree used to organize data in high speed storage for dynamic queries. The effect of factors like size, distribution and dimensionalit ...

3 Incremental data structures and algorithms for dynamic query interfaces

Egemen Tanin, Richard Beigel, Ben Shneiderman

December 1996 **ACM SIGMOD Record**, Volume 25 Issue 4

Publisher: ACM Press

Full text available: pdf(587.32 KB) Additional Information: full citation, abstract, citings, index terms

Dynamic query interfaces (DQIs) form a recently developed method of database access that provides continuous realtime feedback to the user during the query formulation process. Previous work shows that DQIs are elegant and powerful interfaces to small databases. Unfortunately, when applied to large databases, previous DQI algorithms slow to a crawl. We present a new approach to DQI algorithms that works well with large databases.

Keywords: algorithm, data structure, database, direct manipulation, dynamic query, information visualization, user interface

4 Dynamic information visualization

Yannis E. Ioannidis

December 1996 **ACM SIGMOD Record**, Volume 25 Issue 4

Publisher: ACM Press
Full text available: pdf(468.39 KB) Additional Information: full citation, abstract, citings, index terms

Dynamic queries constitute a very powerful mechanism for information visualization; some universe of data is visualized, and this visualization is modified on-the-fly as users modify the range of interest within the domains of the various attributes of the visualized information. In this paper, we analyze dynamic queries and offer some natural generalizations of the original concept by establishing a connection to SQL. We also discuss some implementation ideas that should m ...

5 Interface and data architecture for query preview in networked information systems
Catherine Plaisant, Ben Shneiderman, Khoa Doan, Tom Bruns
July 1999 **ACM Transactions on Information Systems (TOIS)**, Volume 17 Issue 3
Publisher: ACM Press
Full text available: pdf(1.06 MB) Additional Information: full citation, abstract, references, citings, index terms

There are numerous problems associated with formulating queries on networked information systems. These include increased data volume and complexity, accompanied by slow network access. This article proposes a new approach to a network query user interfaces that consists of two phases: query preview and query refinement. This new approach is based on the concepts of dynamic queries and query previews, which guides users in rapidly and dynamically eliminating undesired records, reducing the ...

Keywords: EOSDIS, direct manipulation, dynamic query, graphical user interface, query preview, query refinement, science data

6 The dynamic HomeFinder: evaluating dynamic queries in a real-estate information exploration system
Christopher Williamson, Ben Shneiderman
June 1992 **Proceedings of the 15th annual international ACM SIGIR conference on Research and development in information retrieval**
Publisher: ACM Press
Full text available: pdf(1.20 MB) Additional Information: full citation, abstract, references, citings, index terms, review

We designed, implemented, and evaluated a new concept for visualizing and searching databases utilizing direct manipulation called dynamic queries. Dynamic queries allow users to formulate queries by adjusting graphical widgets, such as sliders, and see the results immediately. By providing a graphical visualization of the database and search results, users can find trends and exceptions easily. User testing was done with eighteen undergraduate students who performed signif ...

7 Data exploration across temporal contexts
Mark Derthick, Steven F. Roth
January 2000 **Proceedings of the 5th international conference on Intelligent user interfaces**
Publisher: ACM Press
Full text available: pdf(1.48 MB) Additional Information: full citation, abstract, references, citings, index terms

The ability to quickly explore and compare multiple scenarios is an important component of exploratory data analysis. Yet today's interfaces cannot represent alternative exploration paths as a branching history, forcing the user to recognize conceptual branch points in a linear history. Further, the interface can only show information from one state at a time, forcing the user to use her memory to compare scenarios. Our system includes a tree-structured visualization for navigati ...

Keywords: context, exploratory data analysis, undo

8 An interactive visual query environment for exploring data

Mark Derthick, John Kolojejchick, Steven F. Roth
October 1997 **Proceedings of the 10th annual ACM symposium on User interface software and technology**
Publisher: ACM Press
Full text available: pdf(1.56 MB) Additional Information: full citation, references, citings, index terms

9 MMVIS: design and implementation of a multimedia visual information seeking environment

Stacie Hibino, Elke A. Rundensteiner
February 1997 **Proceedings of the fourth ACM international conference on Multimedia**
Publisher: ACM Press
Full text available: pdf(1.70 MB) Additional Information: full citation, references, citings, index terms

Keywords: interactive visualizations, multimedia system design, temporal visual query language, video analysis

10 Supporting exploratory search: Supporting insight-based information exploration in intelligence analysis

John Gersh, Bessie Lewis, Jaime Montemayor, Christine Piatko, Russell Turner
April 2006 **Communications of the ACM**, Volume 49 Issue 4
Publisher: ACM Press
Full text available: pdf(1.20 MB) html(28.66 KB) Additional Information: full citation, abstract, references, index terms

Capturing the exploratory search process can help represent analytical insight.

11 Putting visualization to work: ProgramFinder for youth placement

Jason B. Ellis, Anne Rose, Catherine Plaisant
March 1997 **Proceedings of the SIGCHI conference on Human factors in computing systems**
Publisher: ACM Press
Full text available: pdf(1.07 MB) Additional Information: full citation, references, citings, index terms

Keywords: dynamic query, legal systems, matching, technology transfer, visualization

12 Data object and label placement for information abundant visualizations

Jia Li, Catherine Plaisant, Ben Shneiderman
November 1998 **Proceedings of the 1998 workshop on New paradigms in information visualization and manipulation**
Publisher: ACM Press
Full text available: pdf(1.21 MB) Additional Information: full citation, references, citings, index terms

Keywords: control panel, data object placement, information visualization, label placement, metrics, timelines, visual feedback

13 Model and representation: the effect of visual feedback on human performance in a

color picker interface
Sarah A. Douglas, Arthur E. Kirkpatrick
April 1999 **ACM Transactions on Graphics (TOG)**, Volume 18 Issue 2
Publisher: ACM Press
Full text available: pdf(516.54 KB) Additional Information: full citation, abstract, references, index terms, review

User interfaces for color selection consist of a visible screen representation, an input method, and the underlying conceptual organization of the color model. We report a two-way factorial, between-subjects variable experiment that tested the effect of high and low visual feedback interfaces on speed and accuracy of color matching for RGB and HSV color models. The only significant effect was improved accuracy due to increased visual feedback. Using color groups as a within-subjects variab ...

Keywords: HSV, RGB, color model, color selection, feedback, mental model, user interface

14 Design space of a generic interface for filtering and displaying database query results
Greg Chwelos, Marilyn Mantei
April 1993 **INTERACT '93 and CHI '93 conference companion on Human factors in computing systems**
Publisher: ACM Press
Full text available: pdf(213.54 KB) Additional Information: full citation, references, citings

15 Full papers: Visual exploration of large collections in digital libraries
Nabani N. Silva, J. Alfredo Sánchez, Carlos Proal, Christian Rebollar
August 2003 **Proceedings of the Latin American conference on Human-computer interaction CLIHC '03**
Publisher: ACM Press
Full text available: pdf(616.59 KB) Additional Information: full citation, abstract, references

Though conceptually very powerful, Visual Information Seeking (VIS) has been demonstrated with only relatively small collections of a few thousand items, which makes it possible to keep entire collections in main memory and perform recalculations and rendering in real time as the user manipulates sliders and filters in an interactive fashion. For vast digital libraries, collections may include hundreds of thousands, millions or even more items. We describe EVA2D, a visualization environment that ...

Keywords: digital libraries, large collections, starfield displays, visual information seeking, visualization

16 Spotfire: an information exploration environment
Christopher Ahlberg
December 1996 **ACM SIGMOD Record**, Volume 25 Issue 4
Publisher: ACM Press
Full text available: pdf(740.74 KB) Additional Information: full citation, abstract, citings, index terms

In this paper we examine the issues involved in developing information visualisation systems and present a framework for their construction. The framework addresses the components which must be considered in providing effective visualisations. The framework is specified using a declarative object oriented language; the resulting object model may be mapped to a variety of graphical user interface development platforms. This provides general support to developers of visualisation systems. A p ...

17 Session 4: Memory cues for meeting video retrieval
Alejandro Jaimes, Kengo Omura, Takeshi Nagamine, Kazutaka Hirata

October 2004 **Proceedings of the the 1st ACM workshop on Continuous archival and retrieval of personal experiences**
Publisher: ACM Press
Full text available: pdf(556.48 KB) Additional Information: full citation, abstract, references, index terms

We advocate a new approach to meeting video retrieval based on the use of memory cues. First we present a new survey involving 519 people in which we investigate the types of items people use to review meeting contents (e.g., minutes, video, etc.). Then we present a novel memory study involving 15 subjects in which we investigate what people remember about past meetings (e.g., seating position, etc). Based on these studies and related research we propose a novel framework for meeting video re ...

Keywords: dynamic query, meeting video, memory-based retrieval

18 Demonstrations: A dynamic query interface for finding patterns in time series data
Harry Hochheiser, Ben Shneiderman
April 2002 **CHI '02 extended abstracts on Human factors in computing systems**
Publisher: ACM Press
Full text available: pdf(305.49 KB) Additional Information: full citation, abstract, references

Identification of patterns in time series data sets is a task that arises in a wide variety of application domains. This demonstration presents the timebox model of rectangular regions that specify constraints for dynamic queries over time series data sets, and the TimeSearcher application, which uses timeboxes as the basis of an interactive query tool.

Keywords: dynamic queries, information visualization, time series

19 Graphical query specification and dynamic result previews for a digital library
Steve Jones
November 1998 **Proceedings of the 11th annual ACM symposium on User interface software and technology**
Publisher: ACM Press
Full text available: pdf(388.97 KB) Additional Information: full citation, references, citings, index terms

Keywords: dynamic queries, query by diagram, query previews

20 Seeing, hearing, and touching: putting it all together
Brian Fisher, Sidney Fels, Karon MacLean, Tamara Munzner, Ronald Rensink
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**
Publisher: ACM Press
Full text available: pdf(20.64 MB) Additional Information: full citation

Terms used **dynamic query slider range record** Found **53** of **541**

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Try an Advanced Search
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Results 21 - 40 of 53 Result page: previous 1 **2** 3 next

Relevance scale

21 Example based generation of custom data analysis appliances

Mark Derthick, Steven F. Roth
January 2001 **Proceedings of the 6th international conference on Intelligent user interfaces**
Publisher: ACM Press
Full text available: pdf(640.31 KB) Additional Information: full citation, abstract, references, citings, index terms

Custom interfaces, which we call appliances, allow users to efficiently carry out specialized tasks. Without one, a user is often required to perform repetitive mechanical steps using general purpose interfaces, which we call tools. Much research has attempted to enable non-programmers to create appliances for themselves. >We present a system in which a user can choose an example of the task behavior to be automated from a visualization of his past operations. The example is tra ...

Keywords: GUI builder, programming with examples, visual query language

22 User interface evaluation of a direct manipulation temporal visual query language

Stacie Hibino, Elke A. Rundensteiner
November 1997 **Proceedings of the fifth ACM international conference on Multimedia**
Publisher: ACM Press
Full text available: pdf(1.66 MB) Additional Information: full citation, references, citings, index terms

Keywords: dynamic queries, temporal query filters, temporal visual query language, user interface evaluation

23 Content + connectivity => community: digital resources for a learning community

Gary Marchionini, Victor Nolet, Hunter Williams, Wei Ding, Josephus Beale, Anne Rose, Allison Gordon, Ernestine Enomoto, Lynn Harbinson
July 1997 **Proceedings of the second ACM international conference on Digital libraries**
Publisher: ACM Press
Full text available: pdf(1.18 MB) Additional Information: full citation, references, citings, index terms

24 Improving visualization: The challenge of information visualization evaluation

Catherine Plaisant

May 2004 **Proceedings of the working conference on Advanced visual interfaces**
Publisher: ACM Press
Full text available: pdf(582.13 KB) Additional Information: full citation, abstract, references, citings, index terms

As the field of information visualization matures, the tools and ideas described in our research publications are reaching users. The reports of usability studies and controlled experiments are helpful to understand the potential and limitations of our tools, but we need to consider other evaluation approaches that take into account the long exploratory nature of users tasks, the value of potential discoveries or the benefits of overall awareness. We need better metrics and benchmark repositorie ...

Keywords: adoption, evaluation, return on investment, technology transfer, usability, usefulness, user studies, visualization

25 Direct manipulation for comprehensible, predictable and controllable user interfaces
Ben Shneiderman
January 1997 **Proceedings of the 2nd international conference on Intelligent user interfaces**
Publisher: ACM Press
Full text available: pdf(1.56 MB) Additional Information: full citation, references, citings, index terms

Keywords: agents, direct manipulation, user interface

26 Designing a metadata-driven visual information browser for federal statistics
Bill Kules, Ben Shneiderman
May 2003 **Proceedings of the 2003 annual national conference on Digital government research dg.o '03**
Publisher: Digital Government Research Center
Full text available: pdf(55.41 KB) Additional Information: full citation, abstract, references

When looking for federal statistics, finding the right table, chart or report can be a daunting task for anyone not thoroughly familiar with the federal statistical system. Search tools help, but differing terminologies within the statistical agencies and a lack of familiarity of terms by information seekers limit their effectiveness. The FedStats Browser is a design for visually browsing federal agency statistical products and publications, using techniques that allow users to reformulate queri ...

27 Bringing treasures to the surface: iterative design for the Library of Congress National Digital Library Program
Catherine Plaisant, Gary Marchionini, Tom Bruns, Anita Komlodi, Laura Campbell
March 1997 **Proceedings of the SIGCHI conference on Human factors in computing systems**
Publisher: ACM Press
Full text available: pdf(1.42 MB) Additional Information: full citation, references, citings, index terms

Keywords: browse, design process, digital libraries, dynamic query, java, preview, search, web design

28 Extending understanding of federal statistics in tables
Gary Marchionini, Carol Hert, Liz Liddy, Ben Shneiderman
May 2000 **Proceedings of the 2000 annual national conference on Digital government research dg.o '00**
Publisher: Digital Government Research Center

Full text available: pdf(234.35 KB) Additional Information: full citation, abstract, references

This paper describes progress toward improving user interfaces for US Federal government statistics that are presented in tables. Based on studies of user behaviors and needs related to statistical tables, we describe interfaces to assist diverse users with a range of statistical literacy to explore, find, understand, and use US Federal government statistics.

Keywords: data exploration, dynamic queries, statistics, tablular data, user interfaces

29 Extending understanding of federal statistics in tables

Gary Marchionini, Carol Hert, Liz Liddy, Ben Shneiderman
November 2000 **Proceedings on the 2000 conference on Universal Usability**
Publisher: ACM Press

Full text available: pdf(1.45 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes progress toward improving user interfaces for US Federal government statistics that are presented in tables. Based on studies of user behaviors and needs related to statistical tables, we describe interfaces to assist diverse users with a range of statistical literacy to explore, find, understand, and use US Federal government statistics.

Keywords: data explorartion, dynamic queries, statistics, tabular data, user interfaces

30 Invited papers and panel: Selected ingredients in end-user programming

Moshe M. Zloof
May 1998 **Proceedings of the working conference on Advanced visual interfaces**
Publisher: ACM Press

Full text available: pdf(824.53 KB) Additional Information: full citation, abstract, references

In the area of human computer interaction, over the last twenty years, we have witnessed considerable progress in an ever-increasing bandwidth from the computer to the user. Application screens evolved from static text only screens to interactive GUI screens. These screens contain numerous graphical element or "widgets", supporting multiple data types, such as text, voice, image, and video. The widgets can range from simple ones like a combo box or slider to more complicated OCX's such as intera ...

Keywords: WYSIWYG programming, application abstractions, declarative programming

31 Flexible information visualization of multivariate data from biological sequence similarity searches

Ed Huai-hsin Chi, John Riedl, Elizabeth Shoop, John V. Carlis, Ernest Retzel, Phillip Barry
October 1996 **Proceedings of the 7th conference on Visualization '96**
Publisher: IEEE Computer Society Press

Full text available: pdf(1.23 MB) Publisher Site Additional Information: full citation, references, citings, index terms

Keywords: applications of visualization, biomedical visualization, information visualization, multimodal and multidimensional visualization

32 Interactive visualization of serial periodic data

John V. Carlis, Joseph A. Konstan
November 1998 **Proceedings of the 11th annual ACM symposium on User interface software and technology**
Publisher: ACM Press
Full text available: pdf(254.26 KB) Additional Information: full citation, references, citings, index terms

Keywords: data visualization, information visualization, interactive data exploration, serial periodic data, spiral

33 Descriptions of prototypes: VICKI: the VIsualisation Construction KIt
Huw Dawkes, Lisa A. Tweedie, Bob Spence
May 1996 **Proceedings of the workshop on Advanced visual interfaces**
Publisher: ACM Press
Full text available: pdf(4.40 MB) Additional Information: full citation, abstract, references, citings

The human acquisition of insight into multivariate data can be greatly enhanced if users can view and interact with that data graphically. Many Interactive Visualisation Artifacts (IVAs) have been developed for such activities, but they tend to focus on a single task. The flexibility of the VICKI (the Visualisation Construction Kit) environment allows users to create IVAs, with a level of functionality and appearance, suitable for their specific needs. This paper introduces the concepts behind V ...

34 TimeSpace: activity-based temporal visualisation of personal information spaces
Aparna Krishnan, Steve Jones
January 2005 **Personal and Ubiquitous Computing**, Volume 9 Issue 1
Publisher: Springer-Verlag
Full text available: pdf(607.42 KB) Additional Information: full citation, abstract, index terms

Users' personal information spaces are characterized by their content, organisation, and ongoing user interaction with them. They are fluid entities, evolving over time, and supporting multiple user activities that may require different perspectives of the same underlying information structure. Increasing storage capacity of computing devices and ready access to networked resources puts users at risk of information overload, and presents increasing challenges in organising and accessing t ...

Keywords: Information management, Personal information spaces, Visualisation

35 Multimedia and multimodality: Enabling context-sensitive information seeking
Michelle X. Zhou, Keith Houck, Shimei Pan, James Shaw, Vikram Aggarwal, Zhen Wen
January 2006 **Proceedings of the 11th international conference on Intelligent user interfaces IUI '06**
Publisher: ACM Press
Full text available: pdf(9.92 MB) Additional Information: full citation, abstract, references, index terms

Information seeking is an important but often difficult task, especially when it involves large and complex data sets. We hypothesize that a context-sensitive interaction paradigm would greatly assist users in their information seeking. Such a paradigm would allow users to both express their requests and receive requested information in context. Driven by this hypothesis, we have taken rigorous steps to design, develop, and evaluate a full-fledged, context-sensitive information system. We starte ...

36 Attacking information visualization system usability overloading and deceiving the human
Gregory Conti, Mustaque Ahamad, John Stasko
July 2005 **Proceedings of the 2005 symposium on Usable privacy and security SOUPS '05**

Publisher: ACM Press
Full text available: pdf(682.30 KB) Additional Information: full citation, abstract, references, index terms

Information visualization is an effective way to easily comprehend large amounts of data. For such systems to be truly effective, the information visualization designer must be aware of the ways in which their system may be manipulated and protect their users from attack. In addition, users should be aware of potential attacks in order to minimize or negate their effect. These attacks target the information visualization system as well as the perceptual, cognitive and motor capabilities of human ...

Keywords: denial of information, information visualization, malicious visualizations, secure visualization, usability attacks

37 Doctorial Consortium: Interactive querying of time series data

Harry Hochheiser
April 2002 **CHI '02 extended abstracts on Human factors in computing systems**
Publisher: ACM Press
Full text available: pdf(201.47 KB) Additional Information: full citation, abstract, references

Identification of patterns in time series data sets is a task that arises in a wide variety of application domains [4]. This paper presents a user interface for the timebox query model of rectangular regions that specify constraints over time series data sets. A prototype application based on timeboxes is presented. Collaborations with potential users will guide the design of enhanced functionality. Usability tests and controlled experiments will be conducted to evaluate the timebox query model.

Keywords: dynamic queries, graphical user interface, information visualization, time series

38 Collaborative Filtering: Specifying preferences based on user history

Loren Terveen, Jessica McMackin, Brian Amento, Will Hill
April 2002 **Proceedings of the SIGCHI conference on Human factors in computing systems: Changing our world, changing ourselves**
Publisher: ACM Press
Full text available: pdf(475.14 KB) Additional Information: full citation, abstract, references, citings, index terms

Many applications require users to specify preferences. We support users in this task by letting them define preferences relative to their personal history or that of other users. We implement this idea using a graphical technique called control shadows, which we have implemented on both a desktop computer and on a cell phone with a small, grayscale display. An empirical study compared user performance on the graphical interface and a text table interface with identical functionality. On the des ...

Keywords: collaborative filtering, history, mobile devices, reuse, visualization

39 Enriching buyers' experiences: the SmartClient approach

Pearl Pu, Boi Faltings
April 2000 **Proceedings of the SIGCHI conference on Human factors in computing systems**
Publisher: ACM Press
Full text available: pdf(3.82 MB) Additional Information: full citation, abstract, references, citings, index terms

In electronic commerce, a satisfying buyer experience is a key competitive element. We show new techniques for better adapting interaction with an electronic catalog system to actual buying behavior. Our model replaces the sequential separation of needs identification and product brokering with a conversation in which both processes occur simultaneously. This conversation supports the buyer in formulating his or her needs, and

in deciding which criteria to apply in selecting a product to buy. ...

Keywords: client-server architecture, constraint solver, eCommerce, on-line travel planning systems, visual overview

40 Interactive information visualization: prefuse: a toolkit for interactive information visualization

Jeffrey Heer, Stuart K. Card, James A. Landay

April 2005 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Publisher: ACM Press

Full text available: pdf(1.31 MB) Additional Information: full citation, abstract, references, index terms

Although information visualization (infovis) technologies have proven indispensable tools for making sense of complex data, wide-spread deployment has yet to take hold, as successful infovis applications are often difficult to author and require domain-specific customization. To address these issues, we have created prefuse, a software framework for creating dynamic visualizations of both structured and unstructured data. prefuse provides theoretically-motivated abstractions for the design of a ...

Keywords: 2D graphics, graphs, information visualization, interaction, navigation, toolkits, trees, user interfaces

Terms used **dynamic query slider range record** Found **53** of **541**

Sort results by: relevance
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Results 41 - 53 of 53 Result page: previous 1 2 **3**

Relevance scale

41 Interfaces for understanding multi-agent behavior

Pedro Szekely, Craig Milo Rogers, Martin Frank
January 2001 **Proceedings of the 6th international conference on Intelligent user interfaces**
Publisher: ACM Press
Full text available: pdf(2.73 MB) Additional Information: full citation, abstract, references, index terms

>Synchronized punch-card displaysare an interface technique to visualize tens of thousands of variables by encoding their values as color chips in a rectangular array. Our technique ties multiple such displays to a timeline of events enabling the punch-card displays to show animations of the behavior of complex systems. Punch-card displays not only make it easy to understand the high-level behavior of systems, but also enable users to quickly focus on individual variables a ...

Keywords: agents, visualization

42 The roles of digital libraries in teaching and learning

Gary Marchionini, Hermann Maurer
April 1995 **Communications of the ACM**, Volume 38 Issue 4
Publisher: ACM Press
Full text available: pdf(247.49 KB) Additional Information: full citation, abstract, references, citings, index terms

Libraries have long served crucial roles in learning. The first great library, in Alexandria 2,000 years ago, was really the first university. It consisted of a zoo and various cultural artifacts in addition to much of the ancient world's written knowledge and attracted scholars from around the Mediterranean, who lived and worked in a scholarly community for years at a time. Today, the rhetoric associated with the National/Global Information Infrastructure (N/GII) always includes examples o ...

43 Visualizing digital library search results with categorical and hierarchical axes

Ben Shneiderman, David Feldman, Anne Rose, Xavier Ferré Grau
June 2000 **Proceedings of the fifth ACM conference on Digital libraries**
Publisher: ACM Press
Full text available: pdf(682.87 KB) Additional Information: full citation, abstract, references, citings, index terms

Digital library search results are usually shown as a textual list, with 10-20 items per page. Viewing several thousand search results at once on a two-dimensional display with continuous variables is a promising alternative. Since these displays can overwhelm some users, we created a simplified two-dimensional display that uses categorical and

hierarchical axes, called hieraxes. Users appreciate the meaningful and limited number of terms on each hieraxis. At each grid point ...

Keywords: categorical axes, digital libraries, graphical user interfaces, hierarchy, hieraxes, information visualization

44 Visualizing information spaces: Intelligent visualization and dynamic manipulation: two complementary instruments to support data exploration with GIS

Gennady L. Andrienko, Natalia V. Andrienko

May 1998 **Proceedings of the working conference on Advanced visual interfaces**

Publisher: ACM Press

Full text available: pdf(1.68 MB) Additional Information: full citation, abstract, references

To analyze spatially referenced data, i.e. data referring to geographical objects or locations, one should present them on a map. IRIS is a software system that supports exploration of such data by providing two main services: 1) automated generation of maps and 2) interactive facilities to dynamically manipulate the maps. Automated mapping is enabled by incorporation of generic knowledge on map design. This prevents errors in map design resulting in useless or even misleading presentations. It ...

Keywords: data exploration, dynamic manipulation, geographical information systems, visual interaction, visualization

45 On the effective use and reuse of HCI knowledge

Alistair Sutcliffe

June 2000 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 7 Issue 2

Publisher: ACM Press

Full text available: pdf(245.10 KB) Additional Information: full citation, abstract, references, citings, index terms, review

The article argues that new approaches for delivering HCI knowledge from theory to designers will be necessary in the new millennium. First the role of theory in HCI design to date is reviewed, including the progress made in cognitive theories of interaction and their impact on the design pr ocess. The role of bridging models that build on models of interaction is described, but it is argued that direct application of cognitive theory to design is limited by scalability problems. The altern ...

46 Sandbox: scientists assessing necessary data based on experimentation

Andrew Johnson, Farshad Fotouhi

July 1995 **interactions**, Volume 2 Issue 3

Publisher: ACM Press

Full text available: pdf(1.27 MB) Additional Information: full citation, references, citings, index terms, review

47 User interfaces for integrating web-based information: Evaluation and evolution of a browse and search interface: relation browser

Junliang Zhang, Gary Marchionini

May 2005 **Proceedings of the 2005 national conference on Digital government research dg.o2005**

Publisher: Digital Government Research Center

Full text available: pdf(405.16 KB) Additional Information: full citation, abstract, references, index terms

We present in this paper the design and an evaluation of a novel interface called the Relation Browser++ (RB++) for searching and browsing large information collections. RB++ provides visualized category overviews of an information space and allows dynamic filtering and exploration of the result set by tightly coupling the browsing and searching

functions. A user study was conducted to compare the effectiveness, efficiency and user satisfaction of completing various types of searching and browsi ...

Keywords: browse, category overview, dynamic query, interactive system, interface design, search, visualization

48 XSLT for tailored access to a digtal video library

Michael G. Christel, Bryan Maher, Andrew Begun

January 2001 **Proceedings of the 1st ACM/IEEE-CS joint conference on Digital libraries**

Publisher: ACM Press

Full text available: pdf(892.07 KB) Additional Information: full citation, abstract, references, citings, index terms

Surrogates, summaries, and visualizations have been developed and eval uated for accessing a digital video library containing thousands of documents and terabytes of data. These interfaces, formerly implemented within a monolithic stand-alone application, are being migrated to XML and XSLT for delivery through web browsers. The merits of these interfaces are presented, along with a discussion of the benefits in using W3C recommendations such as XML and XSLT for delivering tailored access to ...

Keywords: XML, XSLT, digital video library, surrogate

49 Virtual environments & stories: Story fountain: intelligent support for story research and exploration

Paul Mulholland, Trevor Collins, Zdenek Zdrahal

January 2004 **Proceedings of the 9th international conference on Intelligent user interface**

Publisher: ACM Press

Full text available: pdf(623.78 KB) Additional Information: full citation, abstract, references, index terms

Increasingly heritage institutions are making digital artifacts available to the general public and research groups to promote the active exploration of heritage and encourage visits to heritage sites. Stories, such as folklore and first person accounts form a useful and engaging heritage resource for this purpose. Story Fountain provides intelligent support for the exploration of digital stories. The suite of functions provided in Story Fountain together support the investigation of questions a ...

Keywords: intelligent exploration, ontologies, personalization and customization of interfaces, ubiquitous interfaces and smart environments, web-based interfaces

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April 1993 **Communications of the ACM**, Volume 36 Issue 4

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N. Hutton, A. Patterson, C. Tata

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April 2000 **Proceedings of the SIGCHI conference on Human factors in computing systems**
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Digital books can significantly enhance the reading experience, providing many functions not available in printed books. In this paper we study a particular augmentation of digital books that provides readers with customized recommendations. We systematically explore the application of spreading activation over text and citation data to generate useful recommendations. Our findings reveal that for the tasks performed in our corpus, spreading activation over text is more useful than citation d ...

Keywords: 3D book, bibliometrics, degree of interest, information visualization, recommendations, spreading activation

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